Notice of Allowability	Application No.	Applicant(s)
	09/821,782	VERMA ET AL.
	Examiner	Art Unit
	Suryaprabha Chunduru	1637
The MAILING DATE of this communication apperall daims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 10/17/05. 2. The allowed claim(s) is/are 6,8-15,17-20,22,23 and 25. 3. Acknowledgment is made of a claim for foreign priority units.	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject and MPEP 1308.	pplication. If not included on will be mailed in due course. THIS
a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).	been received. been received in Application No.	
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT R		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	F □ Notice of Informal	Potent Application (PTO 452)
Notice of Praftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summar	Patent Application (PTO-152)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail D	ate
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Staten 9. □ Other	JEFFREY FREDMAN
		PRIMARY EXAMINER

1. Applicants' response to the office action and amendment filed on October 4, 2004 have been

entered and considered. Claims 6, 8-16, 17-20, 22-23, and 25 are pending. Claims 1-5, 7, 21, 24,

and 26 are canceled.

2. An examiner's amendment to the record appears below. Should the changes and/or additions

be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To

ensure consideration of such an amendment, it MUST be submitted no later than the payment of

the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Clifford J. Mass on October 28, 2005.

Claims 17-20, 22-23, and 25 are directed to an allowable product. Pursuant to the

procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims

6, 8-15, directed to the process of making or using the patentable product, previously withdrawn

from consideration as a result of a restriction requirement, Claims 6, 8-15 now subject to being

rejoined. Claims 6, 8-15 hereby rejoined and fully examined for patentability under 37 CFR

1.104.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been

rejoined, the restriction requirement made in the Office action mailed on 9/30/2004 is hereby

withdrawn.

Please amend the claims as follows:

Cancel claim 16.

Amend claims 6, 8-15, 17 as follows:

Application/Control Number: 09/821,782

Art Unit: 1637

The claims 6, 8-15, 17 should read as follows:

Claim 6. A method for the identification of an animal from a biological sample comprising DNA of the animal, said method comprising the steps of:

- a) isolating and amplifying the DNA with the primer pair as claimed in claim17 to form amplified products;
 - b) sequencing the amplified products to obtain a sequence of the amplified products;
 - c) blasting the sequence obtained in step (b) against a database or databases and
- d) identifying the nucleotide sequence to which the DNA sequence of the biological sample bears maximum similarity to determine a source animal of the biological sample.
- Claim 8. A method as claimed in claim 6 wherein the amplifying is carried out in 20 ul reaction volume containing approximately 20 ng of template DNA, 100 um each of dNTPs, 1.25 pmole of each primer, 1.5mM MgCl₂, 0.5 units of AmpliTaq Gold (Perkin-Elmer-Cetus, USA) DNA polymerase and 1X PCR buffer (10mM Tris-HCl, pH 8.3, and 50mM KCl) and the amplifying comprises an initial denaturation at 95° C for 45 s, annealing at 51° C for 1 min, and extension at 72° C for 2 min wherein the extension at 35th cycle is held for 10 min.
- Claim 9. A method as claimed in claim 6 wherein the databases in step (c) are public databases.
- Claim 10. A method for animal identification to solve a crime comprising analyzing a crime sample with the method of claim 6.
- Claim 11. A method comprising establishing the identity of biological materials of an endangered speices with the method of claim 6.

Application/Control Number: 09/821,782

Art Unit: 1637

Claim 12. A method for establishment of the identity of confiscated animal parts or products of endangered animal species comprising analyzing the confiscated animal parts or products of the endangered species with the method of claim 6.

Claim 13. A method comprising ascertaining the geographical location of the commitment of wildlife crime with the method of claim 6.

Claim 14. A method comprising detecting the adulteration of animal meat in food products with the method of claim 6.

Claim 15. A method for detection of the origin of blood or blood stains comprising subjecting a sample containing the blood or blood stains to the method of claim 6.

Claim 17. A universal primer pair for amplifying a fragment of cytochrome b gene of an animal species in a polymerase chain reaction (PCR) or determining the identity of the biological material of an animal of unknown origin at species and sub-species level, said primer pair consisting of SEQ ID No: 1 and SEQ ID NO: 2 and being capable of selectively amplifying a fragment of about 472 base pairs of a mitochondrial cytochrome b gene of any of at least 221 animal species, wherein the fragment being selectively amplified has a sequence that varies among each of the at least 221 animal species.

3. The following is an examiner's statement of reasons for allowance:

Claims 6, 8-15, 17-20, 22-23, and 25 are allowed.

The present invention is drawn to a universal primer pair consisting of SEQ ID NO: 1 and SEQ ID No: 2, said primer pair being capable of selectively amplifying a fragment of cytochrome b gene of an animal species in a polymerase chain reaction and the primer pair is used in a method for the identification of an animal from a biological sample and determining the

identity of the biological material of an animal of unknown origin at species and sub-species level. The closest prior art teach amplification of mitochondrial cytochrome b gene and did not teach or suggest the universal primer pair consisting of SEQ ID NO: 1 and 2. and use of said primer pair in identifying the biological material of unknown origin at species and sub-species level. Thus the instant invention was not taught or obvious over the closest prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suryaprabha Chunduru whose telephone number is 571-272-0783. The examiner can normally be reached on 8.30A.M. - 4.30P.M, Mon - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and - for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Suryaprabha Chunduru Patent Examiner Art Unit 1637 November 1, 2005.

JEFFREY FREDMAN PRIMARY EXAMINER